

#### PLANT MATERIALS AND PLANTING METHODS

#### A. Plant Materials

The landscape contractor shall furnish and install and/or dig, ball, burlap and transplant all of the plant materials called for on drawings and/or listed in the Plant Schedule.

1. Plant Names

Plant names used in the Plant Schedule shall conform with "Standardized Plant Names," latest edition.

2. Plant Standards

All plant material shall be equal to or better than the requirements of the "USA Standard for Nursery Stock" latest edition, as published by the American Association of Nurserymen (hereafter referred to as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth and shall be first quality, sound, vigorous, well-branched and with healthy, well-furnished root systems. They shall be free of disease, insect pests and mechanical injuries.

All plants shall be nursery grown and shall have been grown under the same climate conditions as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.

3. Plant Measurements

All plants shall conform to the measurements specified in the Plant Schedule as approved by the ARC.

- a. Caliper measurements shall be taken six inches (6") above grade for trees under four-inch (4") caliper and twelve (12") above grade for trees four inches (4") in caliper and over.
- Minimum branching height for all trees shall be six feet (6'), maximum eight feet (8').
- c. Minimum size for planting shade trees shall be 3-33" caliper, 14'-16' in height.
- 'Minimum size for planting minor or intermediate focus trees (pines, crabapples, etc.) shall be 3"-33" caliper, 10'-12' in height.
- e. Minimum size for planting shrubs shall be 18" - 24" spread unless noted otherwise.
- f. Caliper, height, spread and size of ball shall be generally as follows:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
$3'' - 3\frac{1}{3}''$ $3\frac{1}{3}'' - 4''$ $4'' - 4\frac{1}{3}''$	14'-16'	6'-8'	32" diameter
	14'-16'	8'-10'	36" diameter
	16'-18'	8'-10'	40" diameter

43"- 5" 16'-17' 10'-12' 44" diameter  $5" - 5\frac{1}{3}"$  16'-20' 10'-12' 48" diameter 5½"- 6" 18'-20' 12'-14' 52" diameter

All plant material shall generally average the median for the size ranges indicated above as indicated in the "AAN Standards".

4. Plant Identification

Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles or boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certificates of inspection as required by Federal, State and County authorities.

5. Plant Inspection

The ARC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material, inspect all proposed plant material at the source of origin.

### B. Planting Methods

All proposed plant materials that meet the specifications in Section A are to be planted in accordance with the following methods during the proper planting seasons as described in the following:

1. Planting Seasons

The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be continued during the winter months providing there is no frost in the ground and frost-free topsoil planting mixtures are used.

The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively moist. No frozen or wet topsoil shall be used at any time.

### 2. Digging

All plant material shall be dug, balled and burlapped (B+B) in accordance with the "AAN Standards".

3. Excavation of Plant Pits

The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following schedule:

- a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.
- b. All pits shall be generally circular in outline, vertical sides; depth shall not be less than 6" deeper than the root ball, diameter shall not be less than two times the diameter of the root ball as set forth in the following schedule.
- c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18" depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12" in depth minimum.

Diameter and depth of tree pits shall generally be as follows:

PLANT SIZE	ROOT BALL	PIT <u>DIAMETER</u>	PIT <u>DEPTH</u>
$3'' - 3\frac{1}{3}''$ cal.	32"	64"	28"
$3\frac{1}{2}$ " - 4" cal.	36"	72"	32"
4" - 4½" cal.	40"	8 O ''	36"
$4\frac{1}{2}$ " - 5" cal.	44"	88"	40"
5" - 5½" cal.	48"	96"	44"
5½"- 6" cal.	52"	104"	48"

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposés of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

4. Staking, Guying and Wrapping

All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:

- a. Stakes: Shall be sound wood 2" x 2" rough sawn oak or similar durable woods, or lengths, minimum 7'-0" for major trees and 5'-0" minimum for minor trees.
- b. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 5/16" turn buckles, eye and eye with 4" takeup. For trees over 5" caliper, provide 3/16", 7 strand cable cadmium plated steel, with galvanized "eye" thimbles of wire and hose on trees up to 3" in caliper.
- Shall be new, 2 ply Hose: reinforced rubber hose, minimum 1/2" I.D. "Plastic Lock Ties" or "Paul's Trees Braces" may be used in place of wire and hose on trees up to 3" in caliper.
- d. All trees under 3" in caliper are to be planted and staked in accordance with the attached "Typical Tree Staking Detail". All trees over 3" in caliper are to be planted and guyed in accordance with the attached "Typical Tree Guying Detail".

# 5. Plant Pruning, Edging and Mulching

- a. Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1" in diameter shall be painted with an approved antiseptic tree wound dressing.
- b. All trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine pockets.
- After cultivation, all plant materials shall be mulched with a 2" layer of fine, shredded pine bark, peat moss, or another approved material over the entire area of the bed or saucer.

## 6. Plant Inspection and Acceptance

The ARC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is proceeding in accordance with the approved plans and specifications.

7. Plant Guarantee

All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

- a. For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the "Fall" planting season.
- b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following "Spring" planting season:

Sodding

.- ----

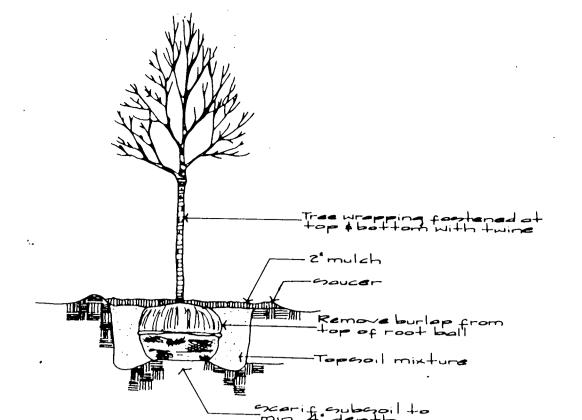
APP'R.

BY

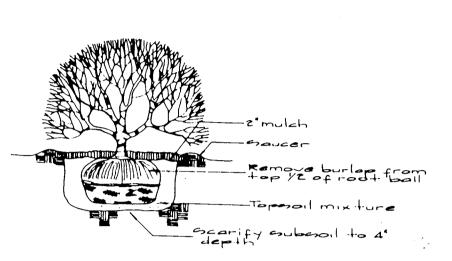
All sodding shall be in accordance to the "Landscape Specification Guidelines for Baltimore-Washington metropolitan Areas" - latest edition, approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape Architects.

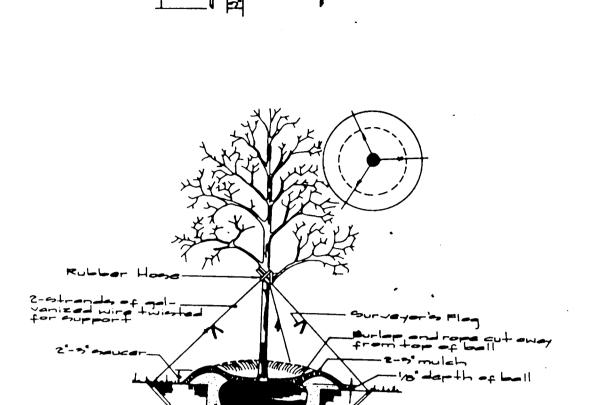
All sod shall le strongly rooted sod, not less than two years old and free of weeds and undesirable native grasses. Provide only sod capable of growth development when planted and in strips not more than 18" wide x 4" long. Provide sod composed principally of improved strain Kentucky bluegrass, such as, Columbia, Victa, or Escort.

## PLANT LIST Gleditsia triacanthos inermis "Skyline"/ Zelkova serrata "Village Green"/ Village Green Zelkova ORNAMENTAL TREES 2%-3" Cal. 8-10′ Ht. Prunus cerasifera "Thundercloud"/ Purpleteaf Flowering Plum 2%-3" Cal. B&B Crataegus viridis "Winter King"/ Winter King Hawthorn EVERGREEN TREES Picea omorika/Serbian Spruce 9-10' Ht. B&B SHRUBS AND GROUND COVER Dwarf hybrid azalea: Gumpo White 18-24" Spr. #3 Cont oniperouschinensis Porsonii Parson's Juniper Osmanthus heterophyllus "Gulftide"/ 5" Pot Plat at 8" O.C. Liriope muscari/Green Liriope



Typical Deciduous Tree Planting





Ramove, egyering from

with finished grade

Perimeter Landacape Edge

catagory	Adjace		Adjacent to Perimeter Properties
Landacape Type	B	E	\
Linear Feet of Roadway Frontage/Perimeter		1231	· · ·
Credit for Exist Vegetation (Yea, No, Linear Feet) (Describe Below if Needed)		yes. of of shrubs	
(Yea, No, Linear Feet) (Describe Below if Needed)		yes: 90't berm 3' higher than Parking lot	/N/A
Number of Plants, Required Shade Trees, C1:40 Evergreen Trees, Shruba,		300	
Number of Plants Provided Shade Trees, Evergreen Trees, Other Trees, (2:10,00) Shrubes, (10:10,00) (Describe plant substitution creditas below if necessary)	by Altern comp		

Schedule 'A'

· ,	Parking Lot Internal Landacaping				
	Number of Parking Spaces	24			
	Number of Trees Required e1:20	1			
	Number of Trees Provided Shade Trees Other Trees (E:1 sub.)	By Alternative compliance			

Sch. 'B' total equ. shade tree' for bonding

## LANDSCAPING NOTES

- This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Chapter VI of the Howard County Landscape Manual.
- Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet C-1 shall apply.
- Field verify underground utility locations and existing conditions before staring planting work. Contact architect if any relocations are required.
- Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
- All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- representative. All areas disturbed by construction activities but not otherwise planted, paved, or

No substitution shall be made without written consent of the owner or his

- mulched shall be seeded or sodded in accordance with project specifications. The contractor shall notify the owner in writing if he/she encounters soil drainage
- conditions which may be detrimental to the growth of the plants. All exposed earth within limits of planting beds shall be mulched with shredded
- hardwood mulch per Planting Details. 10. 'Schedule A - Perimeter Landscape Edge' and 'Schedule B - Parking Lot Internal
- Landscaping is provided for landscape surety calculation purposes only. The 4 req. shade tree x 100 = \$400.00

11 Tabulation for landscape shown: Required planting by HRD for

1.36 ac of commercial at 30 trees/ac - 41 trees

Planting provided: shade trees (existing and proposed) 24 = 12 E.S.T.evergreen trees (existing and proposed): 12 = 6 E.S.T.

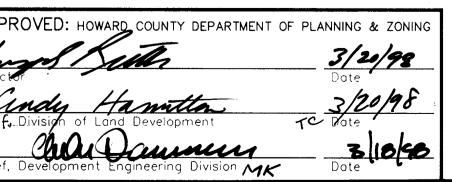
E.S.T. - Equivalent Shade Trees The balance of the HRD required shade trees is provided by proposed shrubs and ground covers.

of HOWARD COUNTY DATE 1/28/98

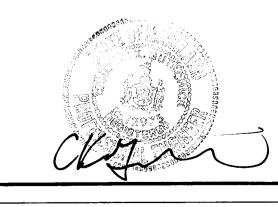
APPROVED

PLANNING BOARD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING 3/20/98 GEV GUTSCHICK LITTLE & WEBER, PA.



DATE



REVISION

The Howard Research and Development Corporation 10275 Little Patuxent Parkway Columbia, Md 21044 (410) 992-6027 Attn: Al Edwards Contract Purchaser Commercial i Farmers Bank

Planting Notes | Details ZONING G.L.W. FILE No. SCALE NT 1"=30" 97126 ROUTE 175 COMMERCIAL 8593 Baltimore National Pike Ellicott City, Maryland 21043 commer. DRN.: PARCEL "J" SHEET DATE TAX MAP No. 3 of 4 30 Feb. 11, '08 GUILFORD ELECTION DISTRICT No. 6 HOWARD COUNTY, MARYLAND

SDP-98-62

TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866

